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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/773,044		02/05/2004	Yukihisa Hirotsugu	TI-36214 5447			
23494	7590	09/06/2005		EXAM	EXAMINER		
TEXAS IN	STRUME	ENTS INCORPOR	NGUYE	NGUYEN, HIEP			
P O BOX 65	5474, M/S	3999			·		
DALLAS, T	X 75265	;	ART UNIT	PAPER NUMBER			
•				2816			

DATE MAILED: 09/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Applicant(s)			
		10/773,044	HIROTSUGU ET AI	HIROTSUGU ET AL.			
	Office Action Summary	Examiner	Art Unit				
		Hiep Nguyen	2816	\mathcal{M}			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet v	vith the correspondence add	ress			
A SH WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period w re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO cause the application to become A	IICATION. The reply be timely filed ENTHS from the mailing date of this company to the mailing date of this company to the com				
Status							
2a)⊠	Responsive to communication(s) filed on 15 Ju This action is FINAL. 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal ma	· •	merits is			
Dispositi	on of Claims						
5)⊠ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) 9-20 is/are allowed. Claim(s) 1-8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine. The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction.	vn from consideration. r election requirement. r. epted or b) □ objected to drawing(s) be held in abeya ion is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	` '			
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO- 	152)			

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DETAILED ACTION

The Examiner tried to contact the Attorney on 08-18-05 to propose an examiner's amendment concerning 112, 2nd problems in order to put the application in a condition for allowance. However, the Attorney did not response and as a result, this Office Action is issued for addressing the 112, 2nd problems only.

Claim Objections

Claims 4 and 9 are objected to because of the following informalities: the recitation "the amplifying circuits" in claim 4, line 3; the recitation "the first stage of the preamplifier" in claim 9, lines 3 and 7 lack antecedent basis. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

6153The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction and /or clarification is required.

Regarding claim 1, the recitations "a first differential pair of amplifying transistors" on lines 14-15 and "a second differential pair of amplifying transistors" on lines 16-17 are indefinite because it is not clear as to they are the same or different than the recitations "a first differential pair of amplifying transistors" on line 2 and "a second differential pair of amplifying transistors" on lines 2-3. The recitation "the first transistor and second transistor" on line 24 does not have antecedent basis. It is not clear as to they are same or different than the recitations "a first differential pair of transistors" and "a second differential pair of transistors" on lines 2.

Claims 2-8 are indefinite because of the technical deficiencies of claim 1.

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Allowable Subject Matter

Claim 1-8 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 9-20 are allowed.

Claims 1-8 would be allowable because the prior art of records (US Pat. 6,847,501 and 6,552,593) fails to teach or fairly suggest a first stage of a preamplifier circuit comprising: a first differential pair of transistors and a second differential pair of transistors coupled to input terminals through capacitors; first and second current loops comprising resistors and transistor switches coupled to the bases of the first and second differential pair of transistors, the first current loop and second current loop operable to equalize the charges upon the first transistor and second transistor as called for in claim 1.

Claims 9-20 are allowed because the prior art of records (US Pat. 6,847,501 and 6,552,593) fails to teach or fairly suggest first and second circuits comprising first and second pair of differential transistors, first and second current loops comprising switches and resistors coupled to the bases of the first and second pair of differential transistors as called for in claim 9; a method of reducing the offset current from a base current compensation circuit, comprising: placing a current loop comprised of a balanced pair of resistors opposite each other and a pair of transistor switches opposite each other across the bases of a differential pair of transistors; and capacitively coupling said current loop to the input of a circuit so that the current loop charges input capacitors so as to decrease the recovery time of the circuit as called for in claim 18.

Conclusion

Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to

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37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

08-30-05

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